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High Level

Partnership Questions for Upcoming Exams

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1. A, B and C started a partnership with investment of Rs. X - 1200, Rs. X and Rs. X + 1800. If profit of B is invested in a scheme at the rate of 18% for 5 yrs at SI, then the interest received is Rs.3600. If the total profit in the partnership is Rs.4800 more than the double of the profit of B. Which of the following/s is/are true.

i) Sum of investment of A and B is equal to C.

ii) Value of X is multiple of 18.

iii) A gets 18.75% of the total profit.

1) Only i and ii
2) All i, ii and iii
3) Only i
4) Only i and iii
5) None of these

2. Three partners Reena, Shikha and Komal enter into a partnership business with the capitals in the ratio of 3 : 5 : 8. After four month Reena, Shikha and Komal added Rs. 3000, Rs. 4500 and Rs. 6000 respectively, after next four months Reena and Komal withdraw Rs. 2500 and Rs. 4000 respectively and Shikha added additional Rs. 3000. Two persons Ashish and Ankit enter a business. Ashish invested capital 3000 more than what Reena invested for first four month and Ankit invested what Komal invested for last four months. If Ashish and Ankit got profit share after one year in the ratio of 15 :28 then find the investment of Shikha for last four months?

1) Rs. 10000
2) Rs. 15000
3) Rs. 18000
4) Rs. 16000
5) None of these

3. Neeraj starts a business and after 3 months Dheeraj also joins the business. The initial investment of Neeraj and Dheeraj is in the ratio of 3:2, respectively. Neeraj and Dheeraj receives Rs. _____ and Rs. _____ respectively as profit after completion of one year of the company.

Which of the following satisfies the two blanks given in the questions?

I. Rs.2814, Rs.1407

II. Rs.1758, Rs.879

III. Rs.2356, Rs.1146

1) Only I
2) Only II

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3) Only III
4) Only I and II
5) Only II and III

4. Arun, Arav and Arman enter into a partnership and invested some amount. After one year Arun double its investment, Arav increase its investment by 33(1/3)% and Arman increase its investment by 20%. In the third year Arun and Arav withdraw their investments and Daksh joins the partnership with Arman. After three year they got profit in the ratio of 12 : 14 : 17 : 8 (Arun : Arav : Arman : Daksh). If difference between initial investment of Arav and Arman is 3450. Then Find out the total initial investment made by Arun and Daksh together?

1) Rs. 41400
2) Rs. 45800
3) Rs. 34200
4) Rs. 36200
5) None of these

5. Two partners A and B started a business by investing Rs. 'X + 10' and Rs. 'X' respectively. After 'Y' months, C joined them with an investment of half of the investment of A. If Profit received by A, B and C after '2Y' months partnership are in the ratio 3P: 2X: 2Q respectively, then what is the value of P?

I. (8Q/3)

II. (3Y + 2)/2

III. 2(X + 10)/3

1) only I
2) only II
3) I and III
4) II and III
5) I and II

6. Ashish invested Rs. 20,000 in a scheme offering 10% compound interest compounded annually, whereas Amit invested Rs. _____ more than the amount invested by Ashish in a scheme offering 11% simple interest. Difference between the interests earned by Ashish and Amit after three years is Rs. _____.

The values given in which of the following options will fill the blanks in the same order in which is it given to make the above statement true:

I. 2000, 640

II. 1500, 450

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III. 3000, 975

IV. 500, 145

1) only I
2) I and II
3) I and IV
4) II and III
5) All I, II and III

7. A business partnership was started between X and Y. An investment of Rs. 1200 was made by X whereas Y invested Rs. ___. After 4 months, X doubled his investment for next 6 months and then withdrew his investment. If they got the total annual profit of Rs. 122.55, then Xrsquo;s share of profit is Rs. _____

Which of the following satisfy the two blanks?

(i) Rs. 2700, Rs. 45.60

(ii) Rs. 3600, Rs. 28

(iii) Rs. 4200, Rs. 92

(iv) Rs. 1600, Rs. 61.275

(v) Rs. 4000, Rs. 42.4

1) i and iv
2) i, ii and iv
3) i, iii and iv
4) ii and v
5) none of these

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Directions (8-10): Study the following information carefully and answer the questions given below.

The information given below is the investment of three friends in a business from a period of 2000-2004.

The investments made by an individual are for the same period. The total investment in 2003 is Rs. 24000 and the ratio of investments of A, B and C is 8 : 9 : 7 respectively. The investment of B in 2000 is Rs. 40000 and is equal is to the investment of C in 2002. The investments of A in 2000, 2001 and 2002 are Rs. 32000, Rs. 48000 and Rs. 44000 respectively. The investment of C in 2000 and 2001 are same i.e., Rs. 22000. The investment of B in 2002 is Rs. 6000 more than the investment by him in 2001 i.e., Rs. 30000.

8. Find the share of profit earned by B in the year 2002, if the total profit in 2002 is Rs. 15000?

1) 4500
2) 4550
3) 4580
4) 4900
5) 4000

9. Suppose all friend invested for one more year i.e., 2002 and the total investment of A and B is Rs. 56000 and invested their amounts for 24 and 16 months respectively, find for how many months C invested his amount of Rs. 64,000? [Given profits of A, B and C are Rs. 12600, Rs. 11200 and Rs. 16800 respectively]

1) 10
2) 8
3) 12
4) 15
5) 24

10. If the share of profit of C in 2000 and 2001 is Rs. 7700 and Rs. 8800 respectively, find the ratio of profit of A in 2000 to that in 2001?

1) 1/4
2) 5/12
3) 9/12
4) 11/12
5) 7/12

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Solutions:

1. d

Profit earned by B,

3600 = (x × 18 x 5)/100

X = (3600 x 100)/(18 x 5) = Rs. 4000

Given that, total profit in the partnership is Rs.4800 more than the double of the profit of B.

Total profit = 4800 + 2 × 4000 = Rs. 12800

Now,

x/(2x + 600) = 4000/8800

=> x/(2x + 600) = 5/11

=> 11x = 5(2x + 600)

=> 11x = 10x + 3000

=> x = 3000

So, Investment of A = 3000 – 1200 = Rs. 1800

Investment of B = 3000

Investment of C = x + 1800 = 3000 + 1800 = Rs. 4800

Statement i:

1800 + 3000 = 4800

4800 = 4800

Statement i is true.

Statement ii:

x = 3000, which is not the multiple of 18.

Statement iii:

A = 1800/(1800 + 3000 + 4800) = 18/96 x 100 = 18.75%, which is true.

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2. 2.

Let investment of Reena, Shikha and Komal is Rs. 3x, Rs. 5x and Rs. 8x respectively.

ATQ —

Investment ratio of Abhishek, Neeraj and Aniket = [3x × 4 + (3x + 3000) × 4 + (3x + 3000 – 2500) × 4] : [5x × 4 + (5x + 4500) × 4 + (5x + 4500 + 3000) × 4] : [8x × 4 + (8x + 6000) × 4 + (8x + 6000 – 4000) × 4]

= (36x + 14000) : (60x + 48000) : (96x + 32000)

Investment of Ashish = Investment of Reena for first four months + 3000 = (3x + 3000)

Investment of Ankit = Investment of Komal for last four months = (8x + 6000 – 4000)

ATQ—

(3x + 3000) x 12/(8x + 2000) x 12 = 15/28

10x - 7x = 7000 – 25000

3x = 4500

x = Rs 1500

Shikha invested for last four months = (5x + 4500 + 3000) = (5 × 1500 + 4500 + 3000) = Rs 15000

3. 4.

The ratio of profit share of Neeraj and Dheeraj is Neeraj: Dheeraj = 3 × 12: 2 × (12 – 3)

= 2: 1

From I: The profit ratio of Neeraj and Dheeraj = 2814: 1407 = 2: 1

This satisfies the given condition.

From II: The profit ratio of Neeraj and Dheeraj = 1758: 879 = 2: 1

This satisfies the given condition.

From III: The profit ratio of Neeraj and Dheeraj = 2356: 1146

This does not satisfy the given condition.

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4. 1.

Let investment of Arun, Arav, Arman and Daksh is a, b, c and d respectively.

	Arun		Arav		Arman		Daksh
Now in first year =	a x 12	:	b x 12	:	c x 12		
In 2nd year =	2a x 12	:	(4b/3) x 12	:	(6c/5) x 12		
In 3rd year =					(6c/5) x 12	:	d x 12

Arun : Arav : Arman : Daksh ⇒ (a × 12 + 2a × 12) : (b × 12 + 4 3 b × 12) : c × 12 + 26 5 c×12 : d × 12

3a : 7b/ 3 : 17c/5 : d = 12 : 14 : 17 : 8

⇒ a : b : c : d = 4 : 6 : 5 : 8

Difference between Arav and Arman initial investment = 3450

Total Investment of Arun and Daksh together = (3450/1) × 12 = 41400

5. 3.

Investment of A = X + 10

Investment of B = X

Investment of C = (X + 10)/2

Then, Profit ratio, A: B: C = ((X + 10) x 2Y): (X x 2Y): ((X + 10)/2) x Y

Profit ratio, A: B: C = 3P: 2X: 2Q

Then, ((X + 10) x 2Y): (X x 2Y) = 3P: 2X

P = 2(X + 10)/3

And, ((X + 10) x 2Y): ((X + 10)/2) x Y = 3P: 2Q

P = 8Q/3

6. 3.

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Interest earned by Ashish after three years = 20000 × {(1 + 0.10)^3 – 1} = 20000 × 0.331 = Rs. 6,620

Option I:

Amount invested by Amit = 20000 + 2000 = Rs. 22,000

Interest earned by Amit after three years = 22000 × 0.11 × 3 = Rs. 7260

Difference between the interests earned by Ashish and Amit = 7260 – 6620 = Rs. 640

So option I can be the answer.

Option II:

Amount invested by Amit = 20000 + 1500 = Rs. 21,500

Interest earned by Amit after three years = 21500 × 0.11 × 3 = Rs. 7095

Difference between the interests earned by Ashish and Amit = 7095 – 6620 = Rs. 475

So option II can't be the answer.

Option III:

Amount invested by Amit = 20000 + 3000 = Rs. 23,000

Interest earned by Amit after three years = 23000 × 0.11 × 3 = Rs. 7590

Difference between the interests earned by Ashish and Amit = 7590 – 6620 = Rs. 970

So option III can't be the answer.

Option IV:

Amount invested by Amit = 20000 + 500 = Rs. 20,500

Interest earned by Amit after three years = 20500 × 0.11 × 3 = Rs. 6765

Difference between the interests earned by Ashish and Amit = 6765 – 6620 = Rs. 145

So option IV can be the answer.

7. 1.

From (i): Ratio of profit

= (1200 × 4 + 2400 × 6) : (2700 × 12) = 16 : 27

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=> profit share = 122.55/43 × 16 = Rs. 45.60

Hence, it satisfies the blank.

From (ii): Ratio of profit

= (1200 × 4 + 2400 × 6) : (3600 × 12) = 4 : 9

=> profit share = 122.55/13 × 4 = Rs. 37.70

Hence, it does not satisfy the blank.

From (iii): Ratio of profit

= (1200 × 4 + 2400 × 6) : (4200 × 12) = 8 : 21

=> profit share = 122.55/29 × 8 = Rs. 33.80

Hence, it does not satisfy the blank.

From (iv): Ratio of profit

= (1200 × 4 + 2400 × 6) : (1600 × 12) = 1 : 1

=> profit share = 122.55/2 × 1 = Rs. 61.275

Hence, it satisfies the blank.

From (v): Ratio of profit

= (1200 × 4 + 2400 × 6) : (4000 × 12) = 2 : 5

=> profit share = 122.55/7 × 2 = Rs. 35.01

Hence, it does not satisfy the blank.

Hence only (i) and (iv) satisfy.

8. 1

For the year 2002:

Investment made by A = Rs. 44000

Investment made by B = 30000 + 6000 = 36000

Investment made by C = Rs. 40000

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Ratio of profit = 44000 : 36000 : 40000

Ratio of profit = 44 : 36 : 40

So, the profit shared by the venture capitalist would be in the ratio of 44 : 36 : 40

Share of B = 36/120 × 15000 = 4500

9. 3

Let A and B be the investment made by A and B respectively.

24A/16B = 12600/11200

12A/8B = 126/112

A/B = (126 × 8)/12 × 112 = 3/4

Therefore, investment of A = 3/7 × 56000 = 24000

So, the investment made by B = 32000

Let, C invested for x months

So, the ratio of A and C's profit

(24000 × 24)/(64000 × x) = 12600/16800

x = 12

10. 5.

For the year 2000,

32000/22000 = x/7700; x = 11200

For the year 2001,

48000/22000 = x/8800; y = 19200

So, the ratio of profits of A

11200/19200 = 112/192 = 28/48 = 7/12

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